

# David R M Pattison

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/391321/publications.pdf>

Version: 2024-02-01

62  
papers

3,470  
citations

147726

31  
h-index

138417

58  
g-index

63  
all docs

63  
docs citations

63  
times ranked

1799  
citing authors

#	ARTICLE	IF	CITATIONS
1	Metamorphism of the Buchan type-area, NE Scotland and its relation to the adjacent Barrovian domain. <i>Journal of the Geological Society</i> , 2022, 179, .	0.9	8
2	Preferred orientations of garnet porphyroblasts reveal previously cryptic templating during nucleation. <i>Scientific Reports</i> , 2021, 11, 6869.	1.6	4
3	Ferrous/ferric (Fe <sup>2+</sup> /Fe <sup>3+</sup> ) partitioning among silicates in metapelites. <i>Contributions To Mineralogy and Petrology</i> , 2021, 176, 1.	1.2	18
4	Mineral assemblages and phase equilibria of metabasites from the prehnite–pumpellyite to amphibolite facies, with the Flin Flon Greenstone Belt (Manitoba) as a type example. <i>Journal of Metamorphic Geology</i> , 2020, 38, 71-102.	1.6	14
5	Metamorphic and structural evolution of the Flin Flon – Athapapuskow Lake area, west-central Manitoba. <i>Canadian Journal of Earth Sciences</i> , 2020, 57, 1269-1288.	0.6	2
6	Metamorphic devolatilization of basalts across the greenschist-amphibolite facies transition zone: insights from isograd mapping, petrography and thermodynamic modelling. <i>Lithos</i> , 2019, 342-343, 295-314.	0.6	9
7	Equilibrium and disequilibrium processes across the greenschist–amphibolite transition zone in metabasites. <i>Contributions To Mineralogy and Petrology</i> , 2019, 174, 1.	1.2	11
8	Contrasting degrees of recrystallization of carbonaceous material in the Nelson aureole, British Columbia and Ballachulish aureole, Scotland, with implications for thermometry based on Raman spectroscopy of carbonaceous material. <i>Journal of Metamorphic Geology</i> , 2019, 37, 71-95.	1.6	29
9	A comparison of observed and thermodynamically predicted phase equilibria and mineral compositions in mafic granulites. <i>Journal of Metamorphic Geology</i> , 2019, 37, 153-179.	1.6	66
10	Kinetic control of staurolite–Al <sub>2</sub> SiO <sub>5</sub> mineral assemblages: Implications for Barrovian and Buchan metamorphism. <i>Journal of Metamorphic Geology</i> , 2018, 36, 667-690.	1.6	31
11	Spatially overlapping episodes of deformation, metamorphism, and magmatism in the southern Omineca Belt, southeastern British Columbia. <i>Canadian Journal of Earth Sciences</i> , 2018, 55, 84-110.	0.6	8
12	The metamorphosis of metamorphic petrology. , 2017, , .		6
13	The implications of overstepping for metamorphic assemblage diagrams (MADs). <i>Chemical Geology</i> , 2017, 457, 38-46.	1.4	73
14	A statistical analysis of the distribution of cordierite and biotite in hornfels from the Bugaboo contact aureole: implications for the kinetics of porphyroblast crystallization. <i>Journal of Metamorphic Geology</i> , 2016, 34, 85-101.	1.6	8
15	Petrology of metapelites in the Bugaboo aureole, British Columbia, Canada. <i>Journal of Metamorphic Geology</i> , 2015, 33, 437-462.	1.6	27
16	Beyond the equilibrium paradigm: How consideration of kinetics enhances metamorphic interpretation. <i>American Mineralogist</i> , 2015, 100, 1659-1667.	0.9	63
17	Paleoproterozoic metamorphic and deformation history of the Thompson Nickel Belt, Superior Boundary Zone, Canada, from in situ U–Pb analysis of monazite. <i>Precambrian Research</i> , 2013, 237, 13-35.	1.2	10
18	Thermochronological constraints on the Eocene exhumation of the Grand Forks complex, British Columbia, based on <sup>40</sup> Ar/ <sup>39</sup> Ar and apatite fission track geochronology. <i>Canadian Journal of Earth Sciences</i> , 2013, 50, 576-598.	0.6	11

#	ARTICLE	IF	CITATIONS
19	Barrovian metamorphism in the central Kootenay Arc, British Columbia: petrology and isograd geometry. <i>Canadian Journal of Earth Sciences</i> , 2013, 50, 769-794.	0.6	14
20	Uâ€Pb geochronological constraints on the timing of episodic regional metamorphism and rapid high-T exhumation of the Grand Forks complex, British Columbia. <i>Lithos</i> , 2013, 156-159, 241-267.	0.6	14
21	An automated method for the calculation of $P\text{-}T$ paths from garnet zoning, with application to metapelitic schist from the Kootenay Arc, British Columbia, Canada. <i>Journal of Metamorphic Geology</i> , 2013, 31, 525-548.	1.6	44
22	Regional metamorphism in the Ballachulish area, SW Highlands, Scotland: new perspectives on a famous old debate, with regional implications. <i>Journal of the Geological Society</i> , 2013, 170, 417-434.	0.9	3
23	Metamorphism and deformation of the Grand Forks complex: implications for the exhumation history of the Shuswap core complex, southern British Columbia. <i>Canadian Journal of Earth Sciences</i> , 2012, 49, 1329-1363.	0.6	8
24	Low-pressure regional amphibolite-facies to granulite-facies metamorphism of the Paleoproterozoic Thompson Nickel Belt, Manitoba. <i>Canadian Journal of Earth Sciences</i> , 2012, 49, 1117-1153.	0.6	10
25	Stabilization of garnet in metamorphosed altered turbidites near the St. Eugene leadâ€zinc deposit, southeastern British Columbia: Equilibrium and kinetic controls. <i>Lithos</i> , 2012, 134-135, 221-235.	0.6	9
26	REGIONAL LOW-PRESSURE AMPHIBOLITE-FACIES METAMORPHISM AT THE PIPE II MINE, THOMPSON NICKEL BELT, MANITOBA, AND COMPARISON OF METAMORPHIC ISOGRADS IN METAPELITES AND META-IRON FORMATIONS. <i>Canadian Mineralogist</i> , 2011, 49, 721-747.	0.3	7
27	THE ORIGIN OF MINERALIZED FRACTURES AT THE BLUEBELL MINE SITE, RIONDEL, BRITISH COLUMBIA. <i>Economic Geology</i> , 2011, 106, 1043-1058.	1.8	2
28	Petrological consequences of variations in metamorphic reaction affinity. <i>Journal of Metamorphic Geology</i> , 2011, 29, 953-977.	1.6	108
29	Felsic magmatic phases and the role of late-stage aplitic dykes in the formation of the world-class Cantung Tungsten skarn deposit, Northwest Territories, Canada. <i>Ore Geology Reviews</i> , 2011, 41, 75-111.	1.1	78
30	Toward a quantitative model of metamorphic nucleation and growth. <i>Contributions To Mineralogy and Petrology</i> , 2011, 162, 975-993.	1.2	66
31	Interplay between equilibrium and kinetics in prograde metamorphism of pelites: an example from the Nelson aureole, British Columbia. <i>Journal of Metamorphic Geology</i> , 2009, 27, 249-279.	1.6	109
32	Geology of the western margin of the Grand Forks complex, southern British Columbia: high-grade Cretaceous metamorphism followed by early Tertiary extension on the Granby fault. <i>Canadian Journal of Earth Sciences</i> , 2007, 44, 199-228.	0.6	17
33	Accessory phase petrogenesis in relation to major phase assemblages in pelites from the Nelson contact aureole, southern British Columbia. <i>Journal of Metamorphic Geology</i> , 2007, 25, 401-421.	1.6	73
34	On the Initiation of Metamorphic Sulfide Anatexis. <i>Journal of Petrology</i> , 2006, 48, 511-535.	1.1	122
35	ARSENOPYRITE MELTING DURING METAMORPHISM OF SULFIDE ORE DEPOSITS. <i>Canadian Mineralogist</i> , 2006, 44, 1045-1062.	0.3	48
36	The fate of graphite in prograde metamorphism of pelites: An example from the Ballachulish aureole, Scotland. <i>Lithos</i> , 2006, 88, 85-99.	0.6	33

#	ARTICLE	IF	CITATIONS
37	Genesis of monazite and Y zoning in garnet from the Black Hills, South Dakota. <i>Lithos</i> , 2006, 88, 233-253.	0.6	93
38	Occurrence and Origin of Andalusite in Peraluminous Felsic Igneous Rocks. <i>Journal of Petrology</i> , 2005, 46, 441-472.	1.1	89
39	The Hemlo Gold Deposit, Ontario: An Example of Melting and Mobilization of a Precious Metal-Sulfosalt Assemblage during Amphibolite Facies Metamorphism and Deformation. <i>Economic Geology</i> , 2004, 99, 1063-1084.	1.8	130
40	Age of the Ballachulish and Glencoe Igneous Complexes (Scottish Highlands), and paragenesis of zircon, monazite and baddeleyite in the Ballachulish Aureole. <i>Journal of the Geological Society</i> , 2004, 161, 447-462.	0.9	55
41	Genesis of the Kapuskasing (Ontario) migmatitic mafic granulites by dehydration melting of amphibolite: the importance of quartz to reaction progress. <i>Journal of Metamorphic Geology</i> , 2003, 14, 591-611.	1.6	100
42	Petrogenetic significance of orthopyroxene-free garnet + clinopyroxene + plagioclase + quartz-bearing metabasites with respect to the amphibolite and granulite facies. <i>Journal of Metamorphic Geology</i> , 2003, 21, 21-34.	1.6	162
43	Temperatures of Granulite-facies Metamorphism: Constraints from Experimental Phase Equilibria and Thermobarometry Corrected for Retrograde Exchange. <i>Journal of Petrology</i> , 2003, 44, 867-900.	1.1	335
44	Thermodynamic modelling of the reaction muscovite+cordierite+Al <sub>2</sub> SiO <sub>5</sub> +biotite+quartz+H <sub>2</sub> O: constraints from natural assemblages and implications for the metapelitic petrogenetic grid. <i>Journal of Metamorphic Geology</i> , 2002, 20, 99-118.	1.6	80
45	Instability of Al <sub>2</sub> SiO <sub>5</sub> triple-point assemblages in muscovite+biotite+quartz-bearing metapelites, with implications. <i>American Mineralogist</i> , 2001, 86, 1414-1422.	0.9	92
46	Metamorphic history of the Hemlo gold deposit from Al <sub>2</sub> SiO <sub>5</sub> mineral assemblages, with implications for the timing of mineralization. <i>Canadian Journal of Earth Sciences</i> , 1999, 36, 33-46.	0.6	19
47	An exsolution origin for low-temperature sulfides at the Hemlo gold deposit, Ontario, Canada. <i>Economic Geology</i> , 1997, 92, 569-577.	1.8	21
48	The geology and evolution of the Ballachulish Igneous Complex and Aureole. <i>Scottish Journal of Geology</i> , 1997, 33, 1-29.	0.1	33
49	Reassessment of the garnet-clinopyroxene Fe-Mg exchange thermometer: II. Thermodynamic analysis. <i>Contributions To Mineralogy and Petrology</i> , 1995, 119, 30-42.	1.2	137
50	Melt Extraction during Formation of K-Feldspar + Sillimanite Migmatites, West of Revelstoke, British Columbia. <i>Journal of Petrology</i> , 1995, 36, 351-372.	1.1	58
51	Are euhedral microdiamonds formed during ascent and decompression of kimberlite magma? Implications for use of microdiamonds in diamond grade estimation. <i>Applied Geochemistry</i> , 1995, 10, 725-738.	1.4	18
52	Constraints on temperature-pressure conditions and fluid composition during metamorphism of the Sullivan orebody, Kimberley, British Columbia, from silicate-carbonate equilibria. <i>Canadian Journal of Earth Sciences</i> , 1995, 32, 1937-1949.	0.6	12
53	Zoning patterns in orthopyroxene and garnet in granulites: implications for geothermometry. <i>Journal of Metamorphic Geology</i> , 1994, 12, 387-410.	1.6	152
54	Metamorphic evolution of granulites in the Minto Block, northern Quebec: extraction of peak-P-conditions taking account of late Fe-Mg exchange. <i>Journal of Metamorphic Geology</i> , 1994, 12, 411-428.	1.6	33

#	ARTICLE	IF	CITATIONS
55	Metasomatism in the Generation of Granulite Veins: Mass Balance, Mass Transfer, and Reference Frames. <i>Journal of Petrology</i> , 1993, 34, 1303-1323.	1.1	5
56	Stability of Andalusite and Sillimanite and the $Al_2SiO_5$ Triple Point: Constraints from the Ballachulish Aureole, Scotland. <i>Journal of Geology</i> , 1992, 100, 423-446.	0.7	300
57	Metamorphic styles in young and ancient orogenic belts: introduction. <i>Journal of Metamorphic Geology</i> , 1992, 10, 309-310.	1.6	0
58	Infiltration-driven dehydration and anatexis in granulite facies metagabbro, Grenville Province, Ontario, Canada. <i>Journal of Metamorphic Geology</i> , 1991, 9, 315-332.	1.6	50
59	P-T Conditions and the Influence of Graphite on Pelitic Phase Relations in the Ballachulish Aureole, Scotland. <i>Journal of Petrology</i> , 1989, 30, 1219-1244.	1.1	47
60	Reversed experimental calibration of the garnet-clinopyroxene Fe ? Mg exchange thermometer. <i>Contributions To Mineralogy and Petrology</i> , 1989, 101, 87-103.	1.2	179
61	Evolution of structurally contrasting anatectic migmatites in the 3-kbar Ballachulish aureole, Scotland. <i>Journal of Metamorphic Geology</i> , 1988, 6, 475-494.	1.6	92
62	Geothermometry and geobarometry applied to early proterozoic ?S-type? granitoid plutons, Wopmay Orogen, Northwest Territories, Canada. <i>Contributions To Mineralogy and Petrology</i> , 1982, 79, 394-404.	1.2	14